

Genus	Vol. 12 (1): 13-22	Wrocław, 10 IV 2001
-------	--------------------	---------------------

Byrsinus setosus n. sp. from Flores and new records of some other
Old World *Cydnidae*
(Hemiptera: Heteroptera)

JERZY A. LIS

Department of Biosystematics, Division of Zoology, University of Opole, 45-052 Opole, Oleska
22, Poland, e-mail: cydnus@uni.opole.pl

ABSTRACT. *Byrsinus setosus* from Flores (Indonesia), the first representative of the genus recorded from the island, is described and compared with *B. varians* (FABRICIUS), the only known Oriental species of the genus. First country records are presented for ten species of the Old World *Cydnidae*, namely for *Garsauriella haglundi* (BERGROTH) (Zaire), *Cydnus aterrimus* (FORSTER) (Jordan), *Peltoxys thaumastellus* LINNAVUORI (Ghana), *Byrsinus varians* (FABRICIUS) (Philippines), *Byrsinocoris nigroscutellatus* MONTANTON (Egypt), *Pseudonalips cribratus* (SIGNORET) (Central African Republic), *Plonisa tartarea* (STÄL) (Central African Republic, Kenya), *Canthophorus melanopterus* (HERRICH-SCHAEFFER) (Jordan), *Ochetostethus sahlbergi* WAGNER (Jordan), and *Amaurocoris curtus* (BRULLÉ) (Jordan). Three species known hitherto from restricted areas in Australia, namely *Cydnatomus secundus* J.A. LIS, *Cydnus pericarti* J.A. LIS, and *Nishocoris bicolor* J.A. LIS are recorded for the first time from New South Wales. New records of *Scaptocoris australis* J.A. LIS, known up to date only from the type specimen, are also given.

Key words: entomology, taxonomy, new species, new country records, lectotype designation, Old World, Hemiptera, Heteroptera, *Cydnidae*.

During my studies on the Old World *Cydnidae* I have had a possibility to identify specimens from different private and institutional collections; among the studied material I have found one species new to the science, as well as several species previously unrecorded from various countries. I was also able to trace the type material (regarded as lost, so far) for the Palearctic species of the genus *Sehirus* AMYOT et SERVILLE.

Abbreviations. ASCT – Agricultural Scientific Collections Trust, Orange Agricultural Institute, Orange, New South Wales, Australia; CMNH – Carnegie Museum of Natural History, Pittsburgh, USA; MNHN – Muséum National d'Histoire Naturelle, Paris, France; NMPC – National Museum of Natural History, Department of Entomology, Prague, Czech Republic; NMSA – Natal Museum, Pietermaritzburg, South Africa; SMNS – Staatliches Museum für Naturkunde, Stuttgart, Germany; QMB – Queensland Museum, Brisbane, Australia; UODZ – University of Opole, Department of Zoology, Opole, Poland; WAM – Western Australian Museum, Perth, Australia; WUC – Wolfgang G. ULLRICH collection, Lübeck, Germany; ZMPA – Museum and Institute of Zoology, Polish Academy of Sciences, Warsaw, Poland; ZMAS – Zoological Institute, Russian Academy of Sciences, St. Petersburg, Russia; ZMHB – Zoologisches Museum, Humboldt Universität, Berlin, Germany.

Acknowledgements. I would like to express my thanks to the following persons for the loan of material for my studies: M. FLETCHER (ASCT), J.E. RAWLINS (CMNH), V. ŠVIHLA (NMPC), D.A. BARRACLOUGH (NMSA), D. SCHAWALLER (SMNS), G. MONTEITH (QMB), T.F. HOUSTON (WAM), W.G. ULLRICH (WUC), T. HUFLEJT (ZMPA), I.M. KERZHNER (ZMAS), and J. DECKERT (ZMHB).

Subfamily *Garsauriinae*

Garsauriella haglundi (BERGROTH, 1903)

MATERIAL EXAMINED

ZAIRE: Bangala, Congo Belge, 1 female, Coll. SKULINA (UODZ).

NOTE

New to Zaire. Hitherto recorded from Cameroon, Equatorial Guinea, Gabon, Ivory Coast, Sudan and Togo (Lis 1999a).

Subfamily *Cephalocteinae*

Scaptocoris australis J.A. LIS, 1999

MATERIAL EXAMINED

AUSTRALIA: New South Wales, Newcastle, 3 males 3 females, C.B. JACKSON, 16.3.30 (ASCT, UODZ); New South Wales, Hamilton, 9 males 9 females, 28.3.1960 (ASCT, UODZ); New South Wales, Fennell's Bay, in garden, 1 male 1 female, 17.3.1960 (ASCT); New South Wales, Singleton, couch grass, 1 male, 7.11.1980, K. MOORE, *Stibaropus molginus* SCHIODTE, det. G.R. BROWN 1980 (ASCT); New South Wales, Cessnock, 3 males 5 females, 26.2.1962, town clerk (ASCT, UODZ); New South Wales, Maitland, in the soil in cabbage crop, 1 male

3 females 4 larvae, 14 May 1987, G.A. BROWN, *Stibaropus molginus* SCHIÖDTE, det. A.E. WESTCOTT (ASCT, UODZ).

NOTE

The species was described on the basis of a single specimen from Broken Bay in New South Wales, Australia (LIS 1999b). In the paper (LIS 1999b) I regarded the specimens recorded from Australia (MUSGRAVE 1946, CHADWICK 1966) and identified as *Stibaropus molginus* (SCHIÖDTE) as belonging to the new species (based only on their descriptions given in the mentioned papers). Thanks to the kindness of the curator of *Heteroptera* at ASCT I have had a possibility to examine those specimens personally (along with other unidentified material), and herein I confirm my previous decision.

Subfamily Cydninae
Tribe Cydnini

***Cydnotomus secundus* J.A. LIS, 2000**

MATERIAL EXAMINED

AUSTRALIA: Western Australia, 7-8 km WNW Point Salvation, W. Aust., 28°12'S, 123°36'E, 5-12 Nov. 1989, E.R. PIANKA, red sands ("R" area), pitfall traps, ex alcohol (WAM); New South Wales, Merindee, NSW, 1 female, 8-XI-1971 (UODZ).

NOTE

The species has been described recently from Western Australia (LIS 2000); new to New South Wales.

***Cydnus aterrimus* (FORSTER, 1771)**

MATERIAL EXAMINED

JORDAN: Amman (Abdoun), 1 male, 31 May 1991, R.D. WARD (CMNH).

NOTE

New to Jordan.

***Cydnus pericarti* J.A. LIS, 1996**

MATERIAL EXAMINED

AUSTRALIA: Queensland, Paluma Dam Rd., N. Qld., Site 1, 1 male, 8 Dec 1990 – 5 Feb 1991, MONTEITH & SEYMOUR, Flight intercept trap (QMB); Queensland, NEQ, 15.48'S 145.17'E, Mt Finnigan, 1080m, 1 male, 4 Dec 1990 – 7 Jan

1991, Qld Mus. & ANZSES, Flight intercept, Site 5 (UODZ); Queensland, Eugella NP., 1 female, May 1991, 700m, K.R. McDONALD, Pitfall trap (QMB); Central Queensland, 20.06°S 147.45°E, Mt Abbott, 800-1000m, 1 male 1 female, 9-12 Apr 1997, MONTEITH, COOK & JANETZKI (QMB); Central Queensland, 23.55°S 151.20°E, Boyne island, via Gladstone, 2 males 1 female, 1995, C.Q. University (QMB, UODZ); NE Queensland, 15.57°S 145.08°E, Mt Boolbun South, 1 male, 4-6 Nov 1995, 850-1000m, MONTEITH, COOK & ROBERTS (QMB); Central Queensland, 21.07°S 148.31°E, Pease's Lkt., Eungella, 3 males 1 female, 17 Nov 92 – mid Apr 1993, D. COOK & G.B. MONTEITH, 900m, RF intercept & pitfalls (QMB, UODZ); SE Queensland, 26.08°S 152.20°E, Oakview S.F., 1 male, 400m, 25 Sept – 12 Dec 1997, H. JANETZKI, vine scrub, pitfall trap (QMB); NE Queensland, 17.39°S 145.30°E, Bally Knob, summit, 1 female, 6 Dec 98 – 6 Feb 1999, MONTEITH & COOK, 1100m, pitfall, open for. (QMB); SE Queensland, 27.03°S 152.41°E, Mt Mee, 320m, 1 male 2 females, 3 Mar 1992 – 12 Apr 1992, D.J. COOK, RF intercept (QMB, UODZ); N Queensland, Paluma Dam Rd., 3 males 2 females, Site 1, 900 m, 1 female, Site 3, 800m, 8 Dec 1990 - 5 Feb 1991, MONTEITH & Seymour, flight intercept trap (QMB, UODZ); NE Queensland, 15.48°S 145.17°E, Mt Finnigan, 1040m 2 females, 4 Dec 1990 – 17 Jan 1991, Qld. Mus. & ANZSES, flight intercept, site 5 (QMB); NE Queensland, 15.52°S 145.14°E, Mt Misery Summit, 3 females, 1 male, 850m, 6 Dec 1990 – 17 Jan 1991, Qld. Mus. & ANZSES, flight intercept, site 2 (QMB); NE Queensland, 19.07°S 145.23°E, Mt Halifax summit, 1 male 2 females, D. Cook, 21 Mar – 10 May 1991, pitfalls & intercept (QMB, UODZ); NE Queensland, 15.43°S 145.17°E, Big Tableland, 6 males 2 females, 20 Dec 1990 – 8 Jan 1991, ANZSES Expedition, flight intercept, 800m (QMB, UODZ); NE Queensland, 17.28°S 145.32°E, Kenny Road, 1 male 1 female, 25 Nov 1994 – 10 Jan 1995, MONTEITH & HASEMPUSCH, Flt. intercept trap, 850 m (QMB); Queensland, 28.08°S 152.26°E, Mt. Huntley, 1250m, 3 males, 29-30 Jan 1993, G.B. MONTEITH (QMB, UODZ); NE Queensland, 17.26°S 145.42°E, Hughes Road, Topaz, 1 male, 6 Dec 1993 – 25 Feb 1994, MONTEITH COOK & JANETZKI, RF pitfalls, 650 m (QMB); Charmillin Ck Xing, 950 m, Tully Falls Rd., 1 male, N. Qld., 8 Dec 1989 – 5 Jan 1990, MONTEITH THOMPSON & JANETZKI, pitfall & intercept traps (QMB); NEQ, 19.07°S 146.23°E, Mt Halifax summit, 1 male, 1050 m, Jan – 20 Mar 1991, A. GRAHAM, pitfalls & intercept (QMB); SE Queensland, 26.37°S 152.41°E, Little Yabba Ck., 1 male 1 female, 1050 m, 2 Mar 1992 – 12 Apr 1992, D.J. COOK, RF pitfalls (QMB); New South Wales, Blue Gum Lookout, via Mallanganee, 580m, 1 female, rainforest pitfall, G.B. MONTEITH, 1977/78 (QMB).

NOTE

New to New South Wales.

Nishocoris bicolor J.A. LIS, 1997

MATERIAL EXAMINED

AUSTRALIA: New South Wales, Fowlers Gap, 1 male, 22 XII 1980, Hongay VOJNITS (UODZ); New South Wales, Jerildarie, 1 female, 14 Nov. 1979, ex rotating trap, ex alcohol (UODZ).

NOTE

New to New South Wales; previously known only from the Northern Territory (Lis 1997).

***Peltoxys thaumastellus* LINNAVUORI, 1997**

MATERIAL EXAMINED

GHANA: Yapei ad Tamale, 5 females 1 male, 15 VIII 1963, leg. M.Prószyńska et J. Prószyński, under the bark of tree, Inst. Zool. PAN, Warszawa 16/64 (ZMPA, UODZ).

NOTE

New to Ghana; hitherto known only from Burkina Faso and Sudan (LINNAVUORI 1993, Lis 1999a). Six specimens from Ghana have been collected under the bark of trees, and it is the first information on its biology.

Tribe *Geotomini****Byrsinocoris nigroscutellatus* MONTANTON, 1900**

MATERIAL EXAMINED

EGYPT: E. Sinai, Nuweiba – Dahab rd., ca. 37 km S of Nuweiba, 1 male 1 female, 26.I.1996, Dr. W.G. ULLRICH leg. (WUC, UODZ); W. Des. Oasis: Behariya, 1 male, 2.II.1995 (WUC).

NOTE

New to Egypt; hitherto recorded only from Algeria, Chad, Libya, Mauretania, and Iraq (Lis 1999a).

***Byrsinus setosus* n. sp.**

(Figs 1-2)

ETYMOLOGY

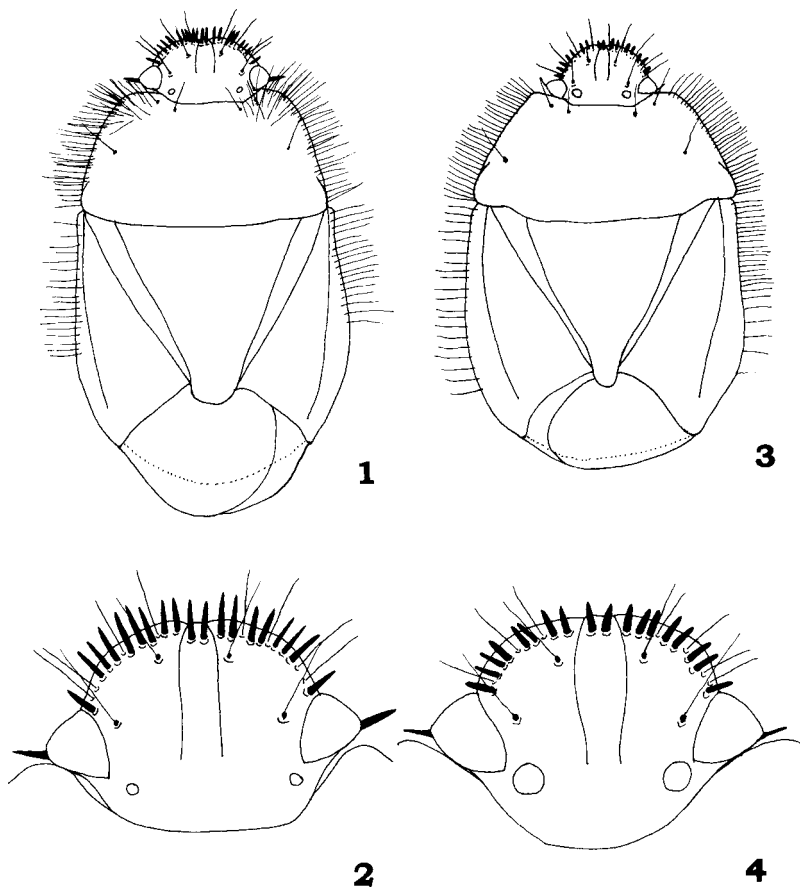
Named after numerous long setae on body margins.

TYPE MATERIAL

Holotype female: East Indonesia, ins. Flores, 28.VIII.1962, I. Warswskij (ZMAS).

DIAGNOSIS

The new species is very similar to Oriental *B. varians* (F.) in the body outline and sculpture (Figs 1, 3). Nevertheless, it can be easily separated from the latter by its smaller body size (length: 3.22 mm in *B. setosus*, 3.40-4.46 mm in *B. varians*; width: 1.84 mm in *B. setosus*, 2.08-2.68 mm in *B. varians*), conspicuously smaller eyes and ocelli (ocular index: 3.9 in *B. setosus*, 2.4-3.0 in *B. varians*; ocellar index: 7.5 in *B. setosus*, 4.0-5.0 in *B. varians*), and different type of body vestiture (both, hair-like and peg-like setae of *B. setosus* are clearly longer than those of *B. varians* - Figs 2, 4).



1-2. *Byrsinus setosus*; 3-4. *Byrsinus varians*: 1, 3 – body outline, 2, 4 – head, dorsal view

DESCRIPTION

Body castaneous, antero-lateral parts of pronotal disc somewhat darker than its remaining parts, head blackish brown.

Head dorsally finely sparsely punctate, anterior half of clypeus almost impunctate; paraclypei slightly longer than clypeus; the latter somewhat tapering apicad, and with a pair of long and sharply ending subapical peg-like setae; each paraclypeus with a submarginal row of 12-13 setigerous punctures bearing 4 hair-like setae and 8-9 long and sharply ending peg-like setae (Fig. 2); eyes castaneous, each with long and stout apical seta (Fig. 2), ocular index about 3.9; ocelli small, yellowish brown, ocellar index about 7.5; distance between ocelli about 8-10 times distance of ocellus from eye; bucculae low, impunctate; anterior half of gular plate impunctate; rostrum reaching mid coxae.

Pronotum densely punctate, except for callal areas and postero-lateral angles of disc; punctures generally larger than those on head, more crowded and coarser in lateral parts of disc than in its posterior half; umbones moderately swollen; anterior margin angularly insinuated in the middle, the lateral broadly rounded; lateral parts of disc with 30-35 long submarginal hair-like setae and anterior patch of about 10-12 long hair-like setae on either side (Fig. 1).

Scutellum densely punctate, with exception of its apex and antero-lateral angles, punctures somewhat larger than those on pronotal disc; basal and lateral rows of punctures well developed and clearly visible.

Corium punctate with punctures as large as those on scutellum; clavus with one complete and two partial rows of punctures; mesocorium with two rows of punctures paralleling clavo-corial suture, remaining surface of mesocorial disc weakly punctate; exocorium with two rows of punctures paralleling meso-exocorium suture and a single row aligned its lateral margin; costa with a row of 17-18 long hair-like setae; membrane semihyaline, slightly browned, clearly surpassing the tip of abdomen.

Propleuron almost impunctate, with a few hardly visible punctures close to coxae; evaporatoria typical of the genus.

Abdominal sterna laterally finely punctate, segments covered with numerous long hair-like setae, those aligning lateral margins (two on either side of segment) slightly longer than remaining setae and forming a longitudinal row on either side.

Legs not specifically modified.

Measurements (in mm) (female only): body length 3.22; body width 1.84; head length 0.61; head width 0.89; pronotum length 0.97; pronotum width 1.67; scutellum length 1.19; scutellum width 1.13; antennal segments 0.18 : 0.15 : 0.19 : 0.17 : 0.19.

NOTE

The new species is the fourth representative of *Cydnidae*, after *Adrisa numeensis* (MONTROUZIER), *Aethus philippinensis* DALLAS, and *Macroscytus subaeneus* (DALLAS), recorded from Flores so far (LIS 1994, 1999a).

***Byrsinus varians* (FABRICIUS, 1803)**

MATERIAL EXAMINED

PHILIPPINES: Palawan, Prov. Narra, Tigman, 12 males 14 females 14 VII 1995, 6 males 9 females 15 VII 1995, Dr. Wolfgang G. ULLRICH collection (WUC, UODZ); Palawan, Puerto Princesa, 7 males 6 females 19 VII 1995, Dr. Wolfgang G. ULLRICH collection (WUC, UODZ).

NOTE

A common Oriental species, not recorded from the Philippines so far (LIS 1999a).

***Plonisa tartarea* (STÅL, 1854)**

MATERIAL EXAMINED

KENYA: Mombasa, Diani-Beach, 1 female, III.1985, Museum Berlin (ZMHB).

TANZANIA: Makoa Estate, Moshi, T.T. Tanganyika, 1200m, 6 males 6 females, XI-XII 1957, leg. E. WOLTER (SMNS, UODZ).

CENTRAL AFRICAN REPUBLIC: Boukoko, 3 males 1 female, UV, 15.05.1964, R. PUJOL (MNHN, UODZ).

SOUTH AFRICA: Natal, Umhlanga Rocks, 29.42S 13.04E, 30m, at light, 2 males XII.84, P. ATKINSON (NMSA, UODZ); Natal, Waterton Timber Co, 28.20S 31.14E, at light, 3 males 1 female, XII.80, P. ATKINSON (NMSA, UODZ); Natal, Lake Cubhu, 28.51S 31.57E, 17m, at light, 1 male 1 female, XI.84, P. Atkinson (NMSA); Natal, Mntunzini Garland Fm, 28.59S 31.44E, 25m, at light, 1 male 1 female, XI.84, P. ATKINSON (NMSA); Natal, Makatini Flats, 27.24S 32.11E, 17m, at light, 1 male 7 females, XI.84, P. ATKINSON (NMSA, UODZ).

NOTE

Afrotropical continental species (LIS 1999a); new to Central African Republic and Kenya.

***Pseudonalips cribratus* (SIGNORET, 1881)**

MATERIAL EXAMINED

CENTRAL AFRICAN REPUBLIC: Boukoko, 2 males 1 female, UV, 15.05.1964, R. PUJOL (MNHN, UODZ).

GUINEA: Sérédou, 5 females 1 male, 1974, leg. Dr. ZOTT, Museum Berlin (ZMHB).

NOTE

Afrotropical continental species (Lis 1999a); new to Central African Republic.

Subfamily *Sehirinae***Tribe *Sehirini******Canthophorus melanopterus* (HERRICH-SCHAEFFER, 1835)**

MATERIAL EXAMINED

JORDAN: W. Jordan, Aroob b. Hebron, 600m, 1 male 2 females, 27.5.1956, J. KLAPPERICH (NMPC, UODZ); W. Jordan, Zerka, S. Amm., 600m, 2 males 1 female, 5.7.1956, J. KLAPPERICH (NMPC, UODZ); Wadi Sir, b. Amm., 600m, 2 male 1 female, 5.6.1956, J. KLAPPERICH (NMPC).

NOTE

West Palaearctic species (Lis 1999a); new to Jordan.

***Ochetostethus sahlbergi* WAGNER, 1952**

MATERIAL EXAMINED

JORDAN: S. Jordan, Petra, 400m, 2 males, 2.5.1959, J. Klapperich, det. as *O. sahlbergi* by I.M. Kerzhner (NMPC).

NOTE

New to Jordan; previously recorded only from Egypt, Israel, Lebanon, Syria and Turkey (Lis 1999a).

***Sehirus cypriacus* DOHRN, 1860**

MATERIAL EXAMINED

CYPRUS: Syntype female: Cypern; typus; Cipro; Typus; cypriacus DOHRN, Cypern Bellardi; Mus. Zool. Polonicum, Warszawa 12/45 (ZMPA).

NOTE

The type material was regarded as lost for a long time (Lis 1999a); fortunately a few months ago I traced the specimen originally labelled by A. DOHRN and matching the original description of the species (DOHRN 1860).

Tribe Amaurocorini***Amaurocoris curtus* (Brullé, 1838)**

MATERIAL EXAMINED

JORDAN: Amman (Abdoun), 1 male, 31 May 1991, R.D. WARD (CMNH).

NOTE

Well known West Palaearctic species; new to Jordan.

REFERENCES

- CHADWICK, C.E., 1966. The occurrence of *Stibaropus molginus* SCHIODTE (Hemiptera, Cydnidae). J. Ent. Soc. Austr. (NSW), **3**: 38.
- LINNAVUORI, R.E., 1993. Cydnidae of West, Central and North-East Africa (Heteroptera). Acta zool. fenn., **192**: 1-148.
- LIS, J.A., 1994. A revision of Oriental burrower bugs (Heteroptera: Cydnidae). Bytom: 349pp.
- , 1997. Three new Australian genera of burrower bugs with four new species (Heteroptera: Cydnidae). Pol. Pismo ent., **66**: 189-201.
- , 1999a. Burrower bugs of the Old World – a catalogue (Hemiptera: Heteroptera: Cydnidae). Genus Wrocław, **10**: 165-249.
- , 1999b. Taxonomy and phylogeny of *Cephalocteinae* with a reference to their biogeography (Hemiptera: Heteroptera: Cydnidae). Pol. Pismo ent., **68**: 111-131.
- , 2000. *Cydnotomus*, a new Australian burrower bug genus, with two new species (Heteroptera, Cydnidae). Dtsch. entomol. Z., **47**: 137-141.
- MUSGRAVE, A. 1946. Abstract of proceedings. Proc. Linn. Soc. New South Wales, 71: xxii-xxiii.